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(A) 110 - 135 - 130 - 13	Attorney Docket Numb	06254P USA			
DECLARATION FOR UTILITY OR DESIGN	First Named Inv ntor	Timothy Christopher Golden			
PATENT APPLICATION	COMPLETE IF KNOWN				
(37 CFR 1.63)	Application Number				
Declaration Declaration	Packgration Filing Date				
Submitted OR Submitted after Initial	Group Art Unit				
with Initial Filling (suicharge (37 CFR 1.16 (e)) Filling required)	Examiner Name				

As a below named inventor, I hereby declare that:								
My residence, mailing address, and citizenship are as stated below next to my name.								
I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:								
PURIFICATION OF GAS STREAMS USING COMPOSITE ADSORBENT								
	/Title of th	e Invention)						
the specification of which	(Title Of the	e mvendon)						
is attached hereto								
OR X was filed on (MM/DD/YYYY)	07/02/2002							
Application Number 10/613,	461 and was a	mended on (MM/DD/YY)	m		(if applicable).			
I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.								
I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.								
I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed.								
Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Co YES	py Attached?			
Number(s)		(manusul 1111)						
Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto:								



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DECLARATION — Utility or Design Patent Application

Direct all correspondence to: X Customer Number or Bar Code Label							
Name 23543 Air Products and Chemicals, Inc.							
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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.							
NAME OF SOLE OR FIRST INVI	ENTOR:			A petition	n has been fi	led for this unsign	ned inventor
Given Name (first and middle [if any]) Timothy Christopher Family Name Golden or Surname				- Andrews and the second secon			
Inventor's Chippille Date 25 July 2021						4.5023	
Allentown	y	(PA State	US	SA ountry	USA Citizenship	1
A104 Hampshire Court Mailing Address							
Mailing Address							
Allentown	PA State			ZIP	18104	USA Country	
City					n has been t	filed for this unsig	ned inventor
NAME OF SECOND INVENTOR	:			r c positivo			·
Given Name (first and middle [if any]) Fred William Family Name or Surname Taylor							
Inventor's Fool William.	1/0					Date 75, 3d	y 2002
Coplay Residence: City			PA State		USA Country	USA Citizenship	
2713 Clearview Road Mailing Address							
Mailing Address			····				
Coplay City	State PA			ZIP	180	37 USA Country	
X Additional inventors are being name	ed on the 1	supplemen	ital Addit	ional Inven	tor(s) sheet(s) F	PTO/SB/02A attached	i hereto.



Please type a plus sign (+) inside this box +

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DECLARATION

ADDITIONAL INVENTOR(S)
Supplemental Sheet
Page __1 of _1

<i>y</i> :		petition has been	filed for th	is unsigned inventor	
Name of Additional Joint Inventor, if any: A petition has been filed for this unsigned inventor Given Name (first and middle [if any]) Family Name or Surname				urname	
Caltar					
Elizabeth Helen Inventor's Livabeth H. Salter. Signature			D		
State	inglation		Great Britain Citizenship		
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y:	□ A	petition has been	filed for thi	s unsigned inventor	
		Family I	Name or S	umame	
Mohammad Ali Kalbassi					
				21/July/03 Date	
England Country		ngland ountry		Great Britain Citizenship	
Residence: City State Country Citizenship Mailing Address 3 Brumana Close					
			ngland		
Name of Additional Joint Inventor, if any:					
Given Name (first and middle [if any]) Family Name or Surname				or surraine	
Christopher James Raiswell			<u> </u>	1	
Inventor's Wascull Signature				Date 15 July 03	
		England Country		Great Britain Citizenship	
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PTO/SB/81 (06-03)

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red to respond to a collection of info	mation unless it displays a valid UMB control number.
Application Number	10/613,461
Filing Date	07/03/2003
First Named Inventor	Timothy Christopher Golden
Title	Purification of Gas Streams Using
Art Unit	1724
Examiner Name	
Attorney Docket Number	06254P USA

I hereby appoint:			7				
X Practitioners at Customer Number:	23543	3					
OR L			_				
Practitioner(s) named below:							
Name Registration Number							
as my/our attorney(s) or agent(s) to prosecut Trademark Office connected therewith.	te the application identified a	above, and to transa	act all business i	in the United States Patent and			
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I am the: Applicant/Inventor. X Assignee of record of the entire interest. See 37 CFR 3.71. Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96)							
SIGNATURE of Applicant or Assignee of Record							
Name Mark L. Rodgers							
Signature							
10/07/2003							
NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.							
*Total of forms are submitted.							

This collection of information is required by 37 CFR 1.31 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/96 (08-00)
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STATEMENT UNDER 37 CFR 3.73(b) Applicant/Patent Owner: Timothy Christopher Golden _____Filed/Issue Date: 07/03/2003 Application No./Patent No.: 10/613,461 Entitled: Purification of Gas Streams Using Composite Adsorbent Air Products and Chemicals, Inc. , a corporation (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.) (Name of Assignee) states that it is: 1. X the assignee of the entire right, title, and interest; or 2. an assignee of less than the entire right, title and interest. The extent (by, percentage) of its ownership interest is _ in the patent application/patent identified above by virtue of either: A. [x] An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached. OR B. [] A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below: To:___ 1. From:____ The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame_____, or for which a copy thereof is attached. To:_ 2. From:___ The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached. _To:__ The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame_____, or for which a copy thereof is attached. [] Additional documents in the chain of title are listed on a supplemental sheet. [] Copies of assignments or other documents in the chain of title are attached. [NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08] The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee. Mark L. Rodgers 10/07/2003 Date Signature Assistant General Counsel, Patents

<u>ASSIGNMENT</u>

For value received, we, Timothy Christopher Golden, Fred William Taylor, Elizabeth Helen Salter, Mohammad Ali Kalbassi, Christopher James Raiswell, hereby sell, assign, and transfer to **AIR PRODUCTS AND CHEMICALS, INC.**, a corporation of the State of Delaware, having an office at 7201 Hamilton Boulevard, Allentown, PA 18195-1501, the entire right, title, and interest in and to the invention relating to

PURIFICATION OF GAS STREAMS USING COMPOSITE ADSORBENT

described in our application for Letters Patent of the United States (identified by Docket No. 06254PUSA) executed of even date herewith, in and to all Letters Patent which may be issued upon said application, in and to any divisional or reissue applications based thereon, and in and to all Letters Patent upon said invention or improvements which may be granted in foreign countries. We hereby also assign and convey to said **AIR PRODUCTS AND CHEMICALS**, **INC.**, all the rights accruing to us by virtue of the International Convention for the Protection of Industrial Property (Art. 4), including the right to apply for and to have patents issued in its own name.

And we hereby authorize and request the Commissioner of Patents and Trademarks of the United States and the Officials of the Patent Offices of all other countries to issue the Letters Patent of their respective countries to said **AIR PRODUCTS AND CHEMICALS, INC.**, as assignee of the entire right, title, and interest in and to the same.

And we hereby promise and agree to execute all papers and perform all acts

necessary to secure to and vest in said AIR PRODUCTS AND CHEMICALS, INC., its successors and assigns, the rights conveyed as herein set forth.

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